

# Mixer B-400



en

## The patented mixing system saves time and cost

Due to optimized sample preparation you will achieve better results in the analysis while saving time and costs at the same time. You will enjoy these significant advantages of the Büchi Mixer B-400 also when it is used continuously. This well designed and sturdy unit will efficiently and reliably keep up with the daily work load in the laboratory. Easy operation, simple handling and uncompromised safety make this mixer an unparalleled choice.

### How to save time and money?

The Büchi Mixer B-400

- reduces the number of essential analyses per sample due to the complete homogeneity of samples
- minces the samples while mixing them thoroughly
- homogenizes samples weighing up to 150 g
- can be easily cleaned

### Simple handling

The Büchi Mixer B-400 can be operated simply and safely. Introduce the sample, press the start button, the sample is homogenized. The mixing process is controlled electronically. The speed of the knives is automatically reduced when the sample provides more resistance; then the maximum speed is resumed. Cleaning requires limited handling steps.



## Büchi Mixer B-400 – Mincing samples while they are homogenized

### A multitude of applications

As an universal mixer, the Büchi Mixer B-400 can process the widest variety of sample materials. For instance,

- samples with a high water content (e.g. vegetables, instant meals)
- samples with a high percentage of fat (e.g. meat, sausages, fish)
- samples with a high content of fibers (e.g. forage, green fodder)

For further applications please consult our list of applications available free of charge.



Applications from foodstuffs...



... and feed

### Special version for the trace element analysis

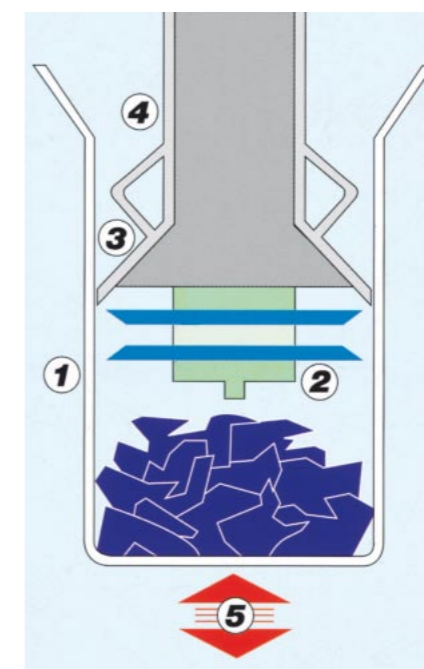
For trace element analysis, the homogenized sample must be free of contamination. The Büchi Mixer B-400 is available with the components contacting the sample made of borosilicate glass, **inert** plastics (PP and PEEK), or titanium. The cutting knife is high quality ceramic.

### Sample preparation over a wide temperature range

Many samples can be minced and homogenized better at lower temperatures. For this purpose we supply a special membrane of PVDF (polyvinylidene fluoride). It is suitable for temperatures ranging from  $-40^{\circ}\text{C}$  to  $+150^{\circ}\text{C}$ .

### Microbiological sample testing

For microbiological sample testing, sterility is an absolute requirement. A PVDF membrane permits autoclave sterilization of all components contacting the sample.



### The Büchi sealing membrane (patent pending) with highspeed knives of steel or ceramic

- ① Sample vessel made of borosilicate glass
- ② Knife with two blades and centrifugal disk, electronic monitoring of speed and torque
- ③ Sealing membrane (PP or PVDF)
- ④ Elastic holder for sealing membrane for continuous compaction of the sample
- ⑤ Lift for sample vessel. The vessel is raised automatically to bring the sample up to the knife. The vessel height is electronically adjusted to the sample resistance.

### Unmatched safety

The Büchi Mixer B-400 has been awarded the official GS mark for "Tested Safety" – meeting maximum requirements on safe operation and functionality.

A major feature: the knife of the mixer can only rotate when the safety door is closed. If the door is opened while mixing is in progress, the knife stops automatically.

# Technical Data

## Mixer B-400

Mains voltage	200–240 V/50 Hz, 200–240 V/60 Hz
Power consumption	(at 230 V) 1900 W
Current consumption	(at 230 V) approx. 9 A
Speed of rotation of knife	approx. 9000 rpm
Dimensions in mm (W x H x D)	300 x 510 x 530
Weight	(without packaging) 26 kg
Testing data	IEC 1010-1/EN 61010-1 (VDE 0411-1) Standard for measuring instruments, control equipment and laboratory apparatus

## Order information

### Standard version

Ready-to-use with one sample vessel, mains cable and operating instructions; acid-resistant stainless steel knife, hardened (ca. 800 Vickers); PP (polypropylene) membrane, titanium drive shaft. Other parts coming into contact with product made of borosilicate glass and PEEK.

	Order no.
200–240 V/50 Hz	34220
200–240 V/60 Hz	34325

### Inert version

Ready-to-use with one sample vessel, mains cable and operating instructions; ceramic knife (ca. 1750 Vickers); PP (polypropylene) membrane, titanium drive shaft. Other parts coming into contact with product made of borosilicate glass and PEEK.

	Order no.
200–240 V/50 Hz	34239
200–240 V/60 Hz	34327

### Accessories and spare parts

	Order no.
Sample vessel	26441
Knife (top), stainless steel	36913
Knife (bottom), stainless steel	36914
Knife (top), ceramic	36915
Knife (bottom), ceramic	36916

### Optional accessories

#### Special membrane

Made of PVDF (polyvinylidene fluoride), for extended temperature ranges. Maximum operating temperature: –40 °C up to 150 °C.

Order no.	
36912	

**Blunt knives can be sharpened at the Buchi factory. Feel free to ask for a quote.**

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